# BRUHATH BANGALORE MAHANAGARA PALIKE

Name of the Work: Package 2 Includes 3 Works Rs.100.00 Lakhs

Name of the Agency: M/S Sathya constructions.

REPORT FOR
EXECUTIVE ENGINEER,
BYATARAYANAPURA DIVISION
BBMP, BANGALORE.

PROJECT MANAGEMENT CONSULTANTS

**TEJUS CONSULTANTS**
CONSULTING ENGINEERS AND DESIGNERS
No.58 MIG, 6th Cross, 3rd Main
1st Stage, Basaveshwaranagar
Bangalore-560079
☎ 080 - 23287532
email: tejusconsultants@gmail.com

Scanned by CamScanner

TEJUS
CONSULTANTS

No. TC / BBMP / BYT-PMC / 407 / 19-20

To
The Executive Engineer
Byatarayanapura Division
Bruhat Bangalore Mahanagara Palike
Bangalore – 560 092

Date:

Dear Sir

Sub: Package 2 Includes 3 Works Rs.100.00lakhs

In reference to the above subject, this is to bring to your kind notice that we have scrutinized the **First and Final bill** submitted by **M/S Sathya Construction, No 600, Down Bazaar Road, Yelahanka Bangalore-5600644** towards the above said work and arrived at an amount of **9641786.54 (Rupees Ninety Six Lakh Forty One Thousand Seven Hundred Eighty Six and Paise Fifty Four Only)** the work has been completed satisfactorily.

This is for your kind information.

Thanking you and assuring you the best of our Services at all the times

TEJUS CONSULTANTS

For Tejus Consultants
(Nischal M)

TEJUS CONSULTANTS
No. 58, 3rd main, 6th Cross, 1st Stage KHB Colony, Basaveshwaranagar, Bangalore - 560079, O : +91 80 23287532, tejusconsultants@gmail.com

Scanned by CamScanner

TEJUS

me of the work : Package 2 Includes 3 Works Rs.100.00 Lakhs

ntractor/Agency : M/S Sathya constructions.

me of the Client : Executive Engineer, Byatarayanapura Division
BBMP, Bangalore.

stimated Cost : Rs 100.00 Lakhs

atus of Bill : 1st and Final bill

the Presence of : (a) Mr. Suresh Devatharaj
Assistant Engineer, BBMP, Bangalore.
: (b) Mr. Sridhar B S
Assistant Executive Engineer, BBMP, Bangalore
: (c) Mr. Dilip Kumar, Site Engineer
M/s Tejus Consultants

| Description of Item | Comments/observatio |
|---|---|
| KSRRB M300-1. Earth work excavation by manual means in ordinary soil involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface levelled and sides neately dressed, the disposed earth to be levelled neatly after breaking of clods complete as per specification. MORTH / Chapter 3 (P.No.142, I.No.19.1 of PW, P&IWTD SR 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| Removing and refixing stone slabs of drains and pointing in CM (1:3) (P.No.25, I.No.5.33 of PW, P&IWTD SR 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| Providing granite Slabs of Selected quality roughly dressed and fixed in cement mortor (1:6) including fixing curing etc., Complete. 7.5cms thick (P.No.25, I.No.5.31.1 of PW, P&IWTD SR 2016-17) | Work done up to the billed quantity and quality is satisfactory |



Scanned by CamScanner

TEJUS CONSULTANTS

| | |
|---|---|
| KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs. with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum. machine mixed. concrete laid in layers not exceeding 15 cms. thick. well compacted. in foundation including cost of all materials. labour. HOM of machinery. curing complete as per specifications. Specification No. KBS 4.1. 4.2 (P.No.12. I.No.4.2 of PW.P&IWTD S.R 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| KSRB 4-6.1: Providing and removing centering. shuttering. strutting. propping etc.. and removal of form work for foundations. footings. bases of columns for mass concrete including cost of all materials. labour complete as per specifications. Specifcation No. KBS 4.6.2 (P.No.15. I.No.4.28 of PW. P&IWTD S.R 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| KSRB 4-6.4: Providing and removing centering. shuttering. strutting. propping etc.. and removal of form work for vertical surfaces such as walls at any thickness. including attached pilasters. buttresses. plinth and string courses cost of all materials. labour complete as per specifications. Specification No.KBS 4.6.2 (P.No.15. I.No.4.28 of PW. P&IWTD S.R 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) M 20 for R.C.C works laid in 15 cms thick layers and well compacted vibrating. curing. for raft foundation column footing . main and secondary beams with all lead and lifts etc.. complete (exclusive of cost of steel and fabrication charges.)Ready mixed concrete M20 for Raft foundation.column.footing.main and secondary beams(P.No.18. I.No.4.48 of PW. P&IWTD S.R 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| KSRB - 4.9.2: Providing TMT steel Fe500 reinforcement for R.C.C work including straightening. cutting. bending. hooking. palcing in position. lapping and / or welding wherever required. tying with binding wire and anchoring to the adjoining memebrs wherever necessary complete as per design (laps. hooks and wastage shall not be measured and paid) cost of materials. labour. HOM of machinery complete as per specifications. Specification No. KBS 4.6.3. (P.No.17. I.No.4.46.2 of PW. P&IWTD S.R 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| Providing and fixing RCC Precast cover slab of 250mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement. including form work. lift charges. curing and concrete finished surfaces on both sides etc. complete and as per drawing and the directions of Engineer in-charge. (Data Rate) | Work done up to the billed quantity and quality is satisfactory |

Scanned by CamScanner

| | |
|---|---|
| KSRRB M300-14. Excavation for roadwork in soil with hydraulic excavator of 0.90 cum bucket capacity including cutting and loading in tippers, trimming bottom and side slopes, in accordance with requirements of lines, grades and cross sections, and transporting to embankment location and complete as per specifications. MORTH Specification No.301 (P.No.143, I.No.19.14 of PW.P&IWTD S.R 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| KSRB 4-1.2: Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @ 0.892 cum and fine aggregates @ 0.465 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2 (P.No.12, I.No.4.2 of PW.P&IWTD S.R 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| KSRRB M 500-6. Providing and applying primer coat with SS bitumen emulsion on prepared surface of granular Base such as WBM WMM including clearing of road surface and spraying primer at the rate of 0.60 kg\sqm using mechanical means complete as per specifications. As per MORTH specification clause No. 502 (P.No.161, I.No.21.6 of PW.P&IWTD SR 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| KSRRB 500-2. Cleaning the existing black topped surface with brooms, soft brushes and finally dusting with old gunny bags and / or compressed air to receive bituminous treatment including cost of all materials, labour, HOM of machineries complete as per specifications. MORTH specification clause 501 (P.No.161 I.No.21.2 of PW.P&IWTD SR of 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| KSRRB M500-7 : Providing and applying tack coat using 80/100 grade bitumen (VG10) on prepared black topped surfaces at 2.5 Kg per 10 sqm, heating bitumen in boiler fitted with spray set (excluding cleaning of road surface) including cost of all materials, labour, HOM of machineries complete as per specifications.MORTH / Chapter 5 (P.No.161 I.No.21.7 of PW.P&IWTD SR of 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| KSRRB M500-17. Providing and laying dense graded bituminous macadam using crushed aggregates of specified grading, premixed with VG30 grade bituminous binder and, transporting the hot mix to work site, laying to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MORTH table 500-10 complete in all respects complete as per specifications.. MORTH Specification No. 507 - using 40/60 TPH capacity H.M.P. with Mechanical paver Gr-II (50 mm to 75 mm) with 4.5 % VG-30 Bitumen (P.No.163 of I.No.21.27.6 in PW.P&IWTD S.R 2016-17) | Work done up to the billed quantity and quality is satisfactory |

TEJUS CONSULTANTS



Scanned by CamScanner

| | |
|---|---|
| KSRRB M500-19. Providing and laying bituminous concrete 30-40 mm compacted thickness with VG30 Bitumen grade using 40-60 HMP using crushed aggregates of grading II, premixed with bituminous binder at 5.4% of mix and filler, transporting the hot mix to work site, laying with a mechanical paver finisher to the required grade, level and alignment, rolling with smooth wheeled, vibratory and tandem rollers to achieve the desired compaction as per MoRT&H specification clause No. 500.9 complete in all respects as per specifications. MORTH Specification No. 509 (P.No.165 of I.No.21.22.6 in PW,P&IWTD S.R 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| KSRRB M800-13. Providing and laying of hot applied thermoplastic compound 2.5 mm thick including reflectorising glass beads at 250 gms per sqm area, thickness of 2.5mm is exclusive of surface applied glass beads as per IRC:35. The finished surface to be level, uniform and free from streaks and holes complete as per specifications. MORTH Specification No. 803.(P.No.185, I.No.24.15 of PW,P&IWTD SR 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| KSRB 5.2-3: Providing and constructing granite size stone masonry in foundation cement mortor 1:6, stone hammered dressed in courses not less than 20cms high, bond stones at 2m. apart in each course including cost of materaials, labour, curing complete as per specifications. Specifcation No. KBS 5.1.13.(using available stones) (P.No.23, I.No.5.6 of PW, P&IWTD S.R 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| KSRB 15.1.1 Providing flush pointing to square rubble, course or uncoursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing complete as per specifications. (P.No.113, I.No.15.1 of PW, P&IWTD S.R 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| KSRB 4-1.6: Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @ 0.878 cum and fine aggregates @ 0.459 cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1, 4.2. (P.No.12, I.No.4.6 of PW,P&IWTD S.R 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| Providing and fixing RCC Precast cover slab of 100mm thick for drain in cement concrete M20 using graded granite jelly 20mm and down size with steel reinforcement, including form work, lift charges, curing and concrete finished surfaces on both sides etc, complete and as per drawing and the directions of Engineer in-charge. (Data Rate) | Work done up to the billed quantity and quality is satisfactory |

TEJUS CONSULTANTS



Scanned by CamScanner

| | |
|---|---|
| Cement concrete pavement.Construction of un-reinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with OPC cement or any other type as per clause 1051.2.2 design mix M20/M30 , with 25mm and down size graded granite metal coarse aggregates and fine aggregtes , with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 , mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades as per drawing complete as per specifications. - M20 (at 300Kg per cum coarse aggregate @ 0.64cum and fine aggregate @ 0.43cum) (P.No.176, I.No.22.6.2 of PW,P&IWTD SR 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| Vaccum de-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cost of generator, HOM of machinery, Screed Vibratory, Power Floater, blade and disc etc., with all lead and lift.(P.No.177, I.No.22.7 of PW, P&IWTD SR 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| KSRRB M2100-1.1. Earth work in excavation for foundation of structures as per drawing and technical specifications, including setting out, construction of shoring and bracing, removal of stumps and other deleterious matter, dressing of sides and bottom and backfilling with approved material complete as per specifications I. Ordinary soil - A . Manual Means (i) Depth upto 3m MORTH Specification No. 304 (P.No.209, I.No.27.1 of PW, P&IWTD S.R 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| KSRB 2.8 : Providing and Filling in foundation with granite / trap broken metal 100mm. and down size, with approved sand including hand packing, ramming, watering, including cost of all materials and labour with all lead and lift, complete as per specifications. specification. No. KBS (P.No.6, I.No.2.15 of PW, P&IWTD S.R 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| KSRRB M2100-13. Plain / Reinforced Cement Concrete M15 with OPC cement @ 240kgs, with 40mm and down size graded granite metal coarse aggregates @0.84cum and fine aggregates @ 0.56cum in Open Foundation complete as per Drawing and Technical Specifications MORTH Specification No. 1500,1700 & 2100 (P.No.211, I.No.27.24 of PW, P&IWTD S.R 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| Diversion of water course by providing Coffer dams or bunds or islands as may be necessary for piers and abutments foundations, bailing out or pumping water during excavation and until completion etc., complete. - - beyond 1.50 mtrs depth upto & including 3m depth. (P.No.257, I.No.37.41.2 of PW, P&IWTD S.R 2016-17) | Item not exceeuted |



Scanned by CamScanner

| | |
|---|---|
| KSRRB M2100-20.2. Plain / Reinforced Cement Concrete in Open Foundation with OPC cement design mix M35 @ 390kgs. with 20mm and down size graded granite metal coarse aggregates @0.68cum and fine aggregates @ 0.45cum. with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008. case II : With Batching Plant. Transit Mixer and Concrete Pump MORTH Specification No. 1500.1700 & 2100 (P.No.213. I.No.27.37. of PW. P&IWTD S.R 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| KSRRB M2200-5.18.Design mix M35 with OPC cement @ 390kgs. with 20mm and down size graded granite metal coarse aggregates @0.68cum and fine aggregates @ 0.45cum. with superplastisiser @3lts confirming to IS9103-1999 Reaffirmed-2008 - i) Upto 5m height. (P.No.214. I.No.28.7.18 of PW. P&IWTD S.R 2016-17) | Work done up to the billed quantity and quality is satisfactory |
| KSRRB M2200- TMT/MS Bar Reinforcement KSRRB M2200-6. Supplying. fitting and placing TMT bar reinforcement in sub-structure complete as per drawing and Technical Specifications complete as per specificationsMORTH Specification No.1600 & 2200 - TMT Bars Fe 500 (P.No.214. I.No.28.8.2 of PW. P&IWTD S.R 2016-17) | Work done up to the billed quantity and quality is satisfactory |

TEJUS CONSULTANTS

TEJUS CONSULTANTS
No. 58, 3rd main, 6th C

Scanned by CamScanner